State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.wi.gov

Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 8/14)

Instructions: **Bold** fields must be completed.

Station Summary

Waterbody Name	**Waterbody ID Code**	**Sample ID (YYYYMMDD-CY-FD)**
PINE RIVER	247800	20181017-70-04

Sampling Location	**Database Key**
	168915295

SWIMS Station ID	**SWIMS Station Name**
10016425	LOWER PINE RIVER - CTH A - UPSTREAM

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
44.18139	89.13673	SWIMS SWDV (GPS)	(WGS84) or NAD83

Basin (WMU)	**Watershed Name**	**County**
WOLF RIVER	PINE AND WILLOW RIVERS	WAUSHARA

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
DAVID BOLHA	PINE RIVER 319 PROJECT-FUNDED TWA 2018

Sampling Device

- [X] D-Frame Kick Net
- [ ] Surber Sampler
- [ ] Eckman
- [ ] Ponar
- [ ] Artificial Substrate
- [ ] Hess Sampler
- [ ] Other: _____

Habitat Sampled

- [X] Riffle
- [ ] Run
- [ ] Pool
- [ ] Other
- [ ] Shoreline Composite
- [ ] Proportionally-Sampled Habitat
- [ ] Littoral Zone
- [ ] Profundal Zone
- [ ] Wetland

Total Sampling Time (min)	**Estimated Area Sampled (m^2)**	**Number of Samples in Composite**	**Replicate No.**
3	1.5	1	1 of 1

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [ ] Trend
- [X] Other: Targeted Watershed Assessment

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
8.2	11.8	102.3		346.3	120

Water Color

- [X] Clear
- [ ] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [ ] Moderate (0.15 m/s - 0.5 m/s)
- [X] Fast (> 0.5 m/s)

Measured Velocity	circle units	**Average Stream Depth of reach (m)**	**Average Stream Width of reach (m)**
2.40	m/s **or** (f/s)	0.4	14

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 20 Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 30

Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 30 **Canopy Cover at Sample Site (%)** 50

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Stream and Watershed Descriptors

N = Not a problem
U = Uncertain
PL = Present, Low Impact
PH = Present, High Impact

Factors that may be influencing Water Resource Integrity	Local	Water-shed
Biological		
Algae: - Diatoms / Periphyton	N	N
- Filamentous Algae	N	N
- Planktonic Algae	N	N
Iron Bacteria	N	N
Macrophytes	N	N
Slimes	N	N
Other - Specify:		
Physical		
Bank Erosion	N	N
Channelization: - Upstream	N	N
- Downstream	N	N
Hydraulic Scour / Channel Incision	N	N
Impoundment: - Upstream	N	PL
- Downstream	N	PL
Low Flow	N	N
Sedimentation	N	PL
Sludge	N	N
Thermal	N	N
Turbidity	N	N
Other - Specify:		

Factors that may be influencing Water Resource Integrity	Local	Water-shed
Chemical		
Chlorine	N	N
Dissolved Oxygen	N	N
Nutrients (P, N...)	N	N
Toxics: - Inorganic (Metals)	N	N
- Organic (PCBs, pesticides...)	N	N
Other - Specify:		
Sources of Stream Impacts		
Bank Erosion	N	N
Point Source - Specify:	N	N
Pasturing of Livestock	N	PL
Runoff: - Barnyard	N	N
- Construction	N	N
- Cropland	N	PL
- Urban	N	N
Septic Systems	N	N
Tile Drainage - Organic Soils	N	PL
- Mineral Soils	N	PL
Springs	PL	PL
Tributary(s)	N	PL
Wetland	N	PL
Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Abby Adams	Dimick, Jeffrey	13%
Date Processed	**Specimens Saved**	
3-6-2019	Subsample archived in ABL until May 2022	

E3 C2 D1 F2 A2
45 118 163 total

Wisconsin Department of Natural Resources
ABL SampleNum: **20181017-70-04**
Taxonomist: Dimick, Jeffrey

Waterbody: **Pine River**
SWIMS Database Key: **168915295**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis brunneicolor	L	I	1	Kluth 2016		
Ephemerella	L	II	2	"	imm	N
E. invaria	L	I	1	"		
Telogaropsis deficiens	L	III	3	"		
Maccaffertium	L	I	1	"	imm	N
M. mediopunctatum	L	II	2	"		
M. modestum	L	I	1	"		
M. vicarium	L	II	2	"		
Brachycentrus occidentalis	L	II	2	Hils 1985		
Micrasema	L	III	3	"	imm	N
M. rusticum	L	I	1	"		
Protoptila	L	II	2	Hils 1995		
Helicopsyche borealis	L	I	1	"		
Cheumatopsyche	L	III	3	"		
Hydropsyche	L	IIII	4	"	imm	N
H. betteni	L	III	3	Schm Hils 1986		
Ceratopsyche	L	I	1	Hils 1995	imm	N
C. slossonae	L	-I	6	Schm Hils 1986		
C. sparna	L	OIIII	24	"		
Leucotrichia pictipes	L	IIII	4	Hils 1995		
Lepidostoma	L	I	1	"		
Chimarra aterrima	L	I	1	Hils 1982		
Psychomyia flavida	L	I	1	Hils 1995		
Neophylax	L	III	3	"	imm	
Nigronia serricornis	L	I	1	Neunzig 1966		
Optioservus	L	-I	6	Hils Schm 1992	imm	N
O. fastiditus	L	XIII	13	"		
Stenelmis crenata	A	I	1	"		
Atherix variegata	L	III	3	Hils 1995		
Hemerodromia	L	-I	6	Courtney 2008		
Antocha	L	-HHT	10	Hils 1995		
Gammarus pseudolimnaeus	A	O-I	26	Hols 1972		
Sperchonopsis	A	I	1	Pluch 1984		
Laevapex fuscus	A	II	2	Thorp Rog 2016		
Hydrobiidae NOT P. antipodarum	A	II	2	Burch 1989		
Sphaerium	A	I	1	Burch 1972		
Eukiefferella	P	I	1	Ferreira 2008		N

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Split A3 Chironomidae	L	~~IIIII~~				
Eukiefferiella devonica group	L	III	3	And+3 2013		
Tvetenia bavarica group	L	I	1	Bode KB3		
Tv. discoloripes group	L	III	3	"		
Orthocladius (Orthocladius)	L	I	1	And+3 2013		
Rheotanytarsus	L	XI	11	Epler et al 2013		